The phenomenon of hibernation, or winter sleep, peculiar to some animals, is very curious indeed. It is not well understood. Some de- and one hibernating, and the dif- may be made the most profitable clare it to be a sort of catalepsy; others say it is a trance. As it is a physiological event and cannot while the one that is hibernating bitions worker in oils and canvas be well investigated, the changes is mobile. When frozen they are what he mixed his colors with, to be well investigated, the changes which occur must remain some without sensation, but when hiber-mating they are usually easily awak-Brains, sir, brains."—It is the what of a mystery.

days, weeks or months together, curled up, or twisted together with mains to add that no fertilizer is days, weeks or months together, we know. That during this time they take no food, void no excretions and lose a great amount of control of the warm day, ventured on the word of the warm day. animal heat we also know. But out, and the cold coming on, was the thinking time, the season for just how life is maintaind, no one unable to return, and so froze, but laying in stores of information on

Anumber of hibernating animals Pittsburg Dispatch. acquire a great amount of fat, usually just under the skin, and during the dormant period this is consumed and they come out in the suring year leave but in the case of spring very lean; but in the case of posed of long wools or fine. There serpents, frogs and bats no such is nothing but what can be im intes, the country meetings, the accumulations have been noticed. proved—no flock however good, farmers' meetings like those held In order that a certain amount of but what can be made better. heat may be maintained, and as Placing sheep out on shares is on lectures and public discussions. nearly into a ball, with the head sheep. and feet on the inside. Snakes and insects, which survive the win accordinglyter, lie in the ground or some pro-

ing food for winter is entirely want | fine wools. lower animals, and many succumb them. to great cold. In sleep the respira-

tract by the blood flowing into it. ing. That this contraction is dependent upon the number of respirations is shown by comparisons. In birds the breathing is fast and the irritability of the heart great; beating physical, really implies the power, normally from 120 to 140 a minute, and the heat of the body is consid but to account it in some sense a water erably over 100 degrees. Descend their temperature is very low.

tection for them.

the joints of the wing, by which tations in the toils of which so they hang suspended in the air when sleeping, and during hiber. still struggling. nation great numbers crowd to-gether clinging to each other, the weight of all being borne by the central one. It is stated that as many as fifty or sixty have been seen in one bunch, the weight of we borrowed a mule and buggy around to me ten years from now, which would aggregate about fif last week and started out to stir up and if he wants it corrected Pil teen pounds. While the central bat sleeps as if in a feather bed, it would seem like a frightful weight to sustain on his thumb-nail. The with an overhanging limb, wore out and if he wa have it done."

The visitor demends the first day, had our new hat smashed by coming in contact with an overhanging limb, wore out statement is vouched for, however, a buggy whip that cost 60 cents, same author, in speaking of the bushel and a half of corn. amount of cold which bats can The second day we rode twenty- a farmer whom he saw at the stand, said that in this large bunch two miles, missed our dunner, breakfast table one morning in the the wings of the outside bats were dunned seventeen of our beloved leading hotel at Nashville. so frozen and brittle as to break patrons, and didn't collect a cent. The third day we arose at 4 a.m., like ice or candy. Some of these, although so badly frozen, were missed our breakfast, lost twenty over it and remarked:

wood chucks are examples of such ed \$4.50. as hibernate imperfectly. They remain in a state of lethargy until a pleasant day, or the pangs of hunger induce them to awake and par a Christmas dinner, and collected plate. He counted them all over, take of food which has been stored \$3.50.

the snow prevented them from get-

ting at the caches. There is a very vast different be- farming, to distinguish it from tween an animal torpid from cold summer work in the field, and it

not enough to exterminate life. agricultural subjects for study and

Sheep And Wool Notes.

they are generally easily aroused, it is they are generally easily aroused, it is in warm, places or congregate in parts of the West. This gives a for reflection, constitute all together the state of the west. in warm places, or congregate in good many men of limited means er an annual opportunity and privsome secluded quarter. Bears, hedgehogs, woodchucks and such stock business, and of soon becomanimals go into holes and curl up animals go into holes and curl up animal

twist together in numbers in some love bright, fine hay, and will eat we are now fairly entered, deserve rocky hole to keep warm. Frogs it cleaner and do better on it than reproach rather than sympathy .and toads sink into the mud, as do on the coarse hay; while cattle seem | Their fields are certain to bear the also alligators, crocodiles and other to relish the course hay and fodder crops of the winter's planting. As lizards. Shell fish dig down into even better than the very fine. It water does not rise higher than its the soft bottoms of streams or lakes, would not be much trouble to feed source, so it is not impossible to

those who explain the phenomenin attribute it to the effect of the subject, and fine wools, and fine wools. The should be the aim of all farmers, on attribute it to the effect of the first comprises the Cotswolds, Lin- those who work small farms quite cold, the absence of suitable food and he gradual showing of the respirations. In those that are per Oxford, Hampshire, and Shrop season for the pursuit of certain tect hibernators the instinct of stor- shire, while the Merinos are the selected studies bearing directly on

ing. They betake themselves to some warm place and begin by fall-sheep can give them better attening asleep. Sleep is a very similar tion than where large flocks are exercise of continual thought and phenomenon, differing only in degree. Human beings who are froz en to death first sleep, then get inbers could handle the mutton to the work he may have in hand. to a condition very like hibernal breeds to better advantage. They Why should the cultivator of land tion, which, when carried further, require just such treatment as these expect that he alone may be excauses death. It is so with the farmers are best prepared to give empted from similar conditions?-

tion is slower, and as a consequence large numbers under the same loof, riority of the well-informed and rethe comperature falls, so that clothe says the American Sheep Breeder. flective farmer over his carless, ing is necessary at night which The breath of so many together habit bound, blind and stambling world be too warm during waking poisons the air and renders it nox neighbor. The farmer who knows ious to breath. A practical shep- how to employ his seasons to the Breathing has direct effect upon herd estimates that not more than best advantage is the only one who what is known as muscular irrita fifty should be stabled under the deserves the name of farmer .bility, or the power of muscle to ressame roof. It is much better to Mass Ploughman. spond to impressions. The heart build several small, sheds at con-Leats because it is excited to con venient points than one large build

Courage.

delight, in the vision of some noing the scale we find lizards breathe | bler end to which the danger may lieve sick headache caused by indislowly, their hearts beat slowly and lead. The boy, in Mr. Cox's illustration, who says his prayers amidst gestion. Thus it is in hibernation, the the ridicule of his school fellows, before meals will prevent nausea breathing becomes less and less un- should not, if his be an ideal char- and dyspensia. til in son e it is nearly er entirely acter, nerve himself painfully for a That a cup of strong coffee will suspended, the heart beats decline and the temperature falls, until, even in warm-blooded animals, it reaches as low as thirty five de The boy who cannot feel this, but will prevent morning headaches gr es, which is only three degrees above the freezing point of water. duty all the same, is no doubt earn. That one in Suicides semetimes take their lives by placing an open charcoal fire in the room and inhaling the through. The character of the through through. The character of the through the through through the through through the through through the through the through the through through the thro earlonic acid gas which it gives off. former on this point is still in the cool and comfortable by frequently that heat does for charcoal. It car- we admire more, so far as the the yolk of eggs before washing. ties away this pernicious gas from point in question goes, the charac the bleed, but the slow action of ter already made, to the character furniture will disappear if you hold the longs during hibernation al- which is still in making. Virtues a hot plate from the stove over lows this to remain and induces grow more complete as the sacri them. lethargy, or anæsthesia, at which time were it not for the increased irritability of the heart death would more advanced characters have There are two classes of hiberna their own victories to win, their er morning, looking pretty much through the winter, and those which wake at frequent intervals. The best example of perfect sleep in this country is seen in the lats. in this country is seen in the bats. because we find less merit in an At the beginning of cold weather action there is less virtue in it .- the throne. they huddle together in bundles, On the contrary, so far as we can fall into a comatose condition and see, the merits of the frail are no gruffly. do not stir until warm weather ments to the virtuous; and the rea comes again. An old hollow tree, son that they are not so, is that the or, best of all, a cave, affords pro virtuous have either been born in tell you of a misprint in the paor have reached a higher plane in per." Bats have a little hook at one of which they no longer feel the temp-

An Editor's Tribulations.

We borrowed a mule and buggy around to me ten years from now, by one who may be believed. The and collected \$1.50 in cash and a

soon brought to life by the application of warmth.

Mexander as we passed his house, l'm gosh durned hungry, and just Our squirrels, opossums and rode twenty-four miles and collect- got in Nashville."

for such emergencies. Squirrels not only provide a large supply in one mule out to die and went to bed.— and then marked:

"Looky place, but have other stores, or If anybody wants to buy a good any pie, and I'm fond of pie too." caches, at irregular places, to which printing effice, with ample assets they can resort in case of exhaus. and small liabilities, and large lat for breakfast at this hotel. Only they can resort in case of exhaustion of the chief granary. When the snow has lam on the ground for a long time, on the ground for a long time, the granary in the ground for a long time, the ground for a long time, the granary is a long time, the ground for a long time, the granary is a long time, the granary holes may be seen where squirrels have dug down with unerring accuracy to geo nuts buried months before. An old hunter says he has known squirrels to perish because the main supply had given out and the frozen condition of the crust of the frozen condition of the crust of the square to inclose a stamp—that is, a man who once stopped at the

Winter Farming.

This is the season of in-door

That certain animals retire to a concealed place and remain dor mant, or in a state of lethargy, for reflection. No other class of men are situated so favorably in this respect. The farmers may be said neighborhood clubs, the local instiweekly in Boston, the sattendance

It is a well-known fact that sheep idle away this time upon which show intelligent farming without The breeds of sheep are divided previously accumulating a fund of their vocation. No merchant, professional man or mechanic succeeds That he is not and cannot be so ex-Sheep should not be housed in empted is fully shown by the supe-

> Facts For Housekeepers. That milk which stands too long

makes bitter butter. That a hot strong lemonade taken at bedtime will break up a bad

True courage, both moral and cold. That tough meat is made tender

That a little soda water will re-

That a cup of hot water drank

That one in a faint should be laid

That a fever patient can be made

That white spots upon varnished

Willing to Correct.

He walked into the office the oth-

see the editor?" he in- R. G. Lyle

"Good morning, sir," he began

"Mornin'," grunted the editor.
"I came in," he proceeded, "to

"What is it?" "Well, I sent a notice around here that my friend Smith had just been married, and your infernal compositor got it, Mr. Smith has

just been martyred." "Ugh, you call that a misprint, do you? Well, I don't, and I have The editor of the Donough (Ga.) raised that compositor's wages. If you don't like it, send Smith

> The visitor departed to see Smith. -Merchant Traveller.

They Would Have Pie.

Jesse Wood tells a good story of

The waiter grinned, and after be-

and then with a doubtful look, re-"Looky here, waiter, I don't see

"Say, mister, we don't set no pie

"Neighbor, this is a - of a hotel." 303 S. Front and

mont House in Chicago. He ced up to the Hotel counter and

eted the clerk with: Before I register at this hotel I at it understood that I must

e pie for supper."
Well, sir, you can have pie if we ve to order extra pies made." That's all right, then. I've had for supper ever since I was ee years old, and I'm bound to ce pie now."



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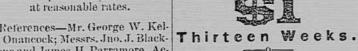
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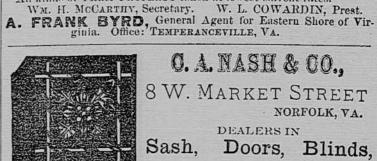
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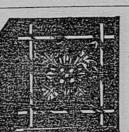
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